

GENERAL AFFECTATION OF BONE

= Generalised diseases of bone can be classified into:-

[A] Developmental disorders:-

1. Paget's disease of bone (osteitis deformans).
2. Osteogenesis imperfecta.
3. Achondroplasia.
4. Dyschondroplasia.
5. Diaphyseal aclasis.
6. Fibrous dysplasia.

[B] Endocrine disorders of bone:-

1. Hyperparathyroidism.
2. Hyper-pituitarism. (Giantism, Acromegaly).

[C] Nutritional disorders of bone:-

1. Rickets.
2. Osteomalacia - senile osteoporosis

PAGET DISEASE

- * Other names: Osteitis deformans. of unknown aetiology.
- * Definition:- rare developmental disorder, commoner in Europe.
- * Age & sex:- affects old people > 40 yr (50-70 yr)
- * Pathology:- affects many bones together as pelvis, vertebrae, femur, tibia & skull (affect cancellous & cortical bones).
 - Sometimes it affects only one bone especially tibia.
 - Starts with osteoclastic resorption of bone, followed by osteoblastic regeneration of primitive bone which is highly vascular with A-V fistula → the bone becomes greatly thickened & long bones are liable to bend → deformity.

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* Clinical Picture:- of Paget dis:-

C/o :- -thickened bone (as skull), headache is common.

- Pain & bending of weight bearing bones.

- s/s of complication as blindness (compression on optic nerve), Paraplegia (narrowing of vertebral canal). HF.

O/E :- thickening & bowing of bones.

* Investigations:-

- X-ray:- shows - thickened, Patchy sclerotic, deformity.

- Loss of demarkation between cortex & Medulla.

* Complications:-

-1- Osteosarcoma (in 5% of patients).

-2- Pathological fracture.

-3- Heart failure (due to A-V fistula).

-4- Osteoarthritis.

-5- Compression → blindness, Paraplegia, deafness.

(NB:- bone marrow suppression not recognised complication)

* Treatment :-

- No treatment is available except for complications.

- Calcitonin effectively relieves pain but not known to affect the course of disease.

GAUCHER DISEASE :-

- Is a rare familial disorder in which accumulation of glucocerebroside → enlarged liver, spleen & marrow.
- Marrow infiltration resembles metastatic condition.